







DESCRIPTION

The WEPS01 is a Bluetooth wireless pressure sensor manufactured for simple measurements on a variety of applications. This silicon pressure sensor was designed to supply an economical solution for industrial, consumer, and commercial applications.

Simply download the Phoenix Sensors application from our website and connect to the device. The sensor will wake-up with any kind of vibration and will shut down automatically when it is not in use to preserve the battery. The battery version will last up 1 year in continuous (1 measurement/30 sec) use. Please contact us for Custom design availability.

The Mobile Software enables the user to store data to evaluate later. The sensor's on-board memory stores up to 200 hours of data for troubleshooting or evaluation of system pressure or temperature.

• Wide Pressure Range (1PSI-5kPSI)

- -20-85°C Operating Temperature
- Compact Size
- Total Error Band 1%
- BLE Wireless Communication (IOS)
- 1-5000 psi pressure ranges
- Absolute, Vacuum
- Media Liquid, Air, & Gas
- IP65 (& IP67)
- •Auto Shut-Off (Sleep Mode)

APPLICATIONS

- Consumer products
- Industrial Automation
- HVAC
- Pool Pumps
- Compressor
- Pneumatics

Maximum Environmental Ratings

Operating Temperature	20°C to 85°C
Storage Temperature Range	40°C to 85°C

Liquid Level – Trucks, Gas/Water Tanks

The WEPS01 is a wireless pressure sensor used in a variety of liquid level applications, such as Water Trucks, Liquid Tanks, Oil tanks, and Spas. It can measure down to 1" of H20

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HVAC – High & Low Side of A/C



The WEPS01 is a wireless pressure sensor that can measure up to pressures of 500PSI. It is accurate and robust enough for HVAC applications; if you need temporary remote Pressure and Temperature measurement of the system this sensor is your solution.

The WEPS01 is a wireless pressure sensor that can measure up to pressures of 500PSI, so it is ideal for most air compressor applications. For troubleshooting , the WEPS01 offers temporary remote Pressure and Temperature measurement of the system. The battery powered solution can last up to 12-months of continous (1 measurement/10 seconds) use.

Air Compressors



Pumps – Water, Hydraulic, etc.



The WEPS01 is a wireless pressure sensor that can measure up to pressures of 500PSI, so it is ideal for Pump applications. For monitoring, the WEPS01 offers temporary remote Pressure measurement of the system. The battery powered solution can last up to 18-months of continous (1 measurement/30 seconds) use.

$V_{+} = 5V, V_{-} = 0V,$	Temperature = 25°C
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SYMBOL	MIN	TYP	MAX	UNITS
V _{DD}	2.2	3	5.5	V
V _{DD}	3	12	15	V
I _{DD}	5	50	750	uA
BLE				
	-0.25		0.25	%FS
	-1		+1	С
t _R		5	500	ms
	-1		1	%FS
С	-10		50	С
с	-20		85	С
	V _{DD} V _{DD} I _{DD} BLE t _R	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Notes:

1) Battery & Rechargeable Version - 3V battery operation 2) Defined as best straight line 3) Measured from 0°C to 50°C 4) Measured over compensated temperature range -10-50C

5) Option 1- Includes 3Ft Cable and no battery

Application Information

Package

The two piece body design is made of SS316 (or Brass), which allows for easy low-cost manufacturability and corrosion resistance. Vibration proof design for use in industrial applications. Plastic option is available for custom designs

Stability

The silicon MEMS pressure sensor element is mounted to a ceramic base and sealed into the SS316 (or Brass) housing. The selection of thermally capability materials reduce the mechanical stress on the sensor resulting in greater stability over time and temperature.

Additional stability is gained from factory stabilization of all sensors.

Pressure port

1/4" -18NPT and 1/8"-18NPT threads are standard SS fittings. Other port fittings such as 7/16-20UNF, and 1/4" BSP are available for OEM customers.

Media

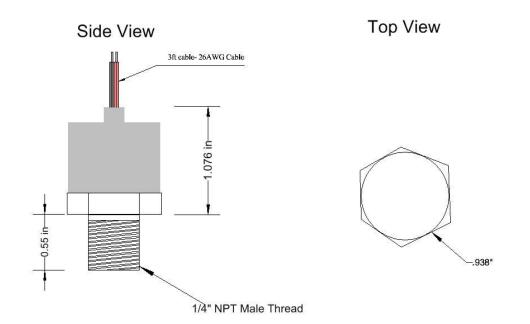
The pressure port is tolerant to most media including but not limited to oil, air, gas, and non-corrosive media. Sensor will only work on a temporary basis in any non-air application. Sensor will need to have a period of time to dehydrate.

Wetted parts

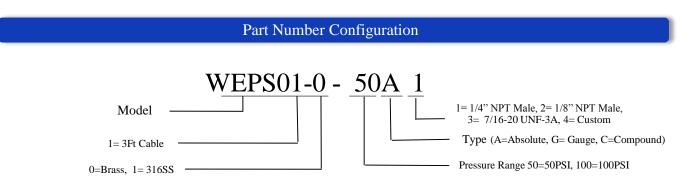
When checking media capability, the wetted surface is composed of Aluminum and Silicon Gel.

Pressure ranges

Standard pressure ranges are 15, 30, 50, 100, 150, and 450 psi in absolute and gage. Custom pressure ranges are available for OEM customers.



Pic. 2 - 12V Option



Standard Part Numbers

Model	Pressure Range PSI	Туре	Max Over Pressure
WEPS01-0-50A1		Absolute	150
WEPS01-0-100A1		Absolute	200
WEPS01-0-300A1		Absolute	450

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